

**ASH GROVE CEMENT COMPANY**

Western Region  
P.O. Box 51  
Nephi, Utah 84648  
801-857-1212

Lynn Kunzler

801-359-3940

July 1, 1994

Utah State University  
Soil Testing Laboratory  
Logan, Utah 84322-4830

1/2 pages

Re: Soil Testing

To Whom It May Concern:

Enclosed is a copy of the Baseline Soils and Overburden Laboratory Analyses which is recommended by the State Division of Oil, Gas and Mining. There are also three soil samples. The three soil samples are describe as follows:

- 1) Sample of lighter colored top soil taken from the County Canyon shale quarry located on the east side of Big Flat, on the south end of East Tintic mountain range.
- 2) Sample of darker colored top soil taken from the County Canyon shale quarry located on the east side of Big Flat, on the south end of East Tintic mountain range.
- 3) Sample of red colored top soil taken from the Navajo Sandstone Quarry located on the southeast mountains of Dog Valley.

There will be a test plot at the County Canyon Quarry. The information gathered from the soil analyses of samples 1 and 2 will help us determine what plants would be best for revegetation, and what amendments could be economical to use. The total size of the test plot would be about 100 ft. x 100 ft.

The Navajo Sandstone Quarry has been vacant for a few years. Ninety percent of the original five acres has revegetated itself with little assistance. However, the regions of the quarry with this red soil have supported minimal growth.

Prior to running the analyses please let me know the total cost so that a purchase order can be initiated. Thanks for you assistance in this matter. If you have further questions call me at 801-857-1211

Sincerely,



Andrew Robinson  
Plant Engineer

direct  
bill to  
has 12/1/94



# UTAH STATE UNIVERSITY • LOGAN, UTAH 84322-4830

USU Analytical Laboratories

Soil Testing Lab Plant Analysis Lab

Feed Analysis Lab Irrigation Water Analysis Lab

27 July 1994

Telephone (801) 750-2217  
Fax (801) 750-3376

## Results for:

Andrew Robinson  
Ash Grove Cement Company  
Western Region  
PO Box 51  
Nepht, UT 84648

Soil samples received 7/5/94.

USU#	ID	SP	pH	EC mmhos/cm	--NaHCO3-- P mg/kg	NO3-N	TCM	SAR	H2O Sol. HCO3 meq/L	%CaCO3	CEC meq/100g
6555	1 light	37.9	7.6	0.7	2.7	2.8	1.02	1.9	2.9	12.7	13.0
6556	2 dark	57.0	7.5	1.0	4.2	4.7	2.29	0.9	3.6	10.2	17.0
6557	3 red	60.5	7.9	0.4	1.8	1.8	0.86	1.4	2.9	11.6	17.2
USU#	ID	----- % Hydrometer -----			Texture		SO4-S mg/kg		-- % Atm -- 1/3 15		
6555	1 light	56	28	16	SL	18.1	16.4	7.7			
6556	2 dark	54	20	26	SCL	36.8	20.4	10.3			
6557	3 red	18	50	32	SiCL	4.2	21.0	10.9			

SP - Saturation Percentage

%Atm - Mass water content at applied pressure (in bars).